

## Title (en)

Encoding device, decoding device, and method thereof

## Title (de)

KODIERVORRICHTUNG, DEKODIERVORRICHTUNG UND VERFAHREN DAFÜR

## Title (fr)

Dispositif de codage, dispositif de décodage et son procédé

## Publication

**EP 2747079 A3 20140813 (EN)**

## Application

**EP 14153980 A 20080229**

## Priority

- JP 2007053498 A 20070302
- JP 2007133525 A 20070518
- JP 2007184546 A 20070713
- JP 2008044774 A 20080226
- EP 08720310 A 20080229

## Abstract (en)

[origin: EP2128860A1] Disclosed is an encoding device which can accurately specify a band having a large error among all the bands by using a small calculation amount. The device includes: a first position identification unit (201) which uses a first layer error conversion coefficient indicating an error of decoding signal for an input signal so as to search for a band having a large error in a relatively wide bandwidth in all the bands of the input signal and generates first position information indicating the identified band; a second position identification unit (202) which searches for a target frequency band having a large error in a relatively narrow bandwidth in the band identified by the first position identification unit (201) and generates second position information indicating the identified target frequency band; and an encoding unit (203) which encodes a first layer decoding error conversion coefficient contained in the target frequency band. The first position information, the second position information, and the encoding unit are transmitted to a communication partner.

## IPC 8 full level

**G10L 19/24** (2013.01); **G10L 19/005** (2013.01); **G10L 19/02** (2013.01)

## CPC (source: EP KR US)

**G10L 19/00** (2013.01 - KR US); **G10L 19/005** (2013.01 - EP US); **G10L 19/0204** (2013.01 - EP US); **G10L 19/0208** (2013.01 - EP US); **G10L 19/24** (2013.01 - EP KR US); **H03M 7/30** (2013.01 - KR); **G10L 19/0212** (2013.01 - EP US)

## Citation (search report)

- [A] WO 2005027095 A1 20050324 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al
- [A] US 2006280271 A1 20061214 - OSHIKIRI MASAHIRO [JP]
- [A] WO 2005040749 A1 20050506 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al
- [A] JP 2006072026 A 20060316 - MATSUSHITA ELECTRIC IND CO LTD
- [A] WO 2006049205 A1 20060511 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al
- [A] US 2003206558 A1 20031106 - PARKKINEN TEEMU [FI], et al
- [A] KOVESI B ET AL: "A scalable speech and audio coding scheme with continuous bitrate flexibility", ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 2004. PROCEEDINGS. (ICASSP '04). IEEE INTERNATIONAL CONFERENCE ON MONTREAL, QUEBEC, CANADA 17-21 MAY 2004, PISCATAWAY, NJ, USA, IEEE, PISCATAWAY, NJ, USA, vol. 1, 17 May 2004 (2004-05-17), pages 273 - 276, XP010717618, ISBN: 978-0-7803-8484-2, DOI: 10.1109/ICASSP.2004.1325975

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## DOCDB simple family (publication)

**EP 2128860 A1 20091202; EP 2128860 A4 20131023; EP 2128860 B1 20140604**; BR PI0808705 A2 20140909; CA 2679192 A1 20081009; CA 2679192 C 20160119; CN 101611442 A 20091223; CN 101611442 B 20120208; CN 102385866 A 20120321; CN 102385866 B 20130508; CN 102394066 A 20120328; CN 102394066 B 20131009; EP 2747079 A2 20140625; EP 2747079 A3 20140813; EP 2747079 B1 20180404; EP 2747080 A2 20140625; EP 2747080 A3 20140806; EP 2747080 B1 20170628; ES 2473277 T3 20140704; JP 2009042733 A 20090226; JP 4708446 B2 20110622; KR 101363793 B1 20140214; KR 20090117883 A 20091113; RU 2012115551 A 20130827; RU 2488897 C1 20130727; RU 2502138 C2 20131220; US 2010017200 A1 20100121; US 2013332150 A1 20131212; US 2014019144 A1 20140116; US 8543392 B2 20130924; US 8935161 B2 20150113; US 8935162 B2 20150113; WO 2008120437 A1 20081009

## DOCDB simple family (application)

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